

04/10/2020

Blytheville Sewer Department  
Mr. Gary Carr  
P.O. Box 1784  
Blytheville, AR 72316

Ref: Analytical Testing  
Report Number: 20-083-0391  
Project: Bioassay-West WWTP  
Quarter 1  
AR0022560

Dear Mr. Carr:

The results of this WET (Whole Effluent Toxicity) test are acceptable according to test review criteria. There were no significant deficiencies found in sample handling, test performance, or reporting. The test results are within the limits established by your NPDES permit and were entered into the permittee's records in the database

Results: *Ceriodaphnia dubia* NOEL = 100 %      CV = 33.20 %  
Fathead Minnow NOEL = 100 %      CV = 26.17 %

Permit Limit: Critical Dilution = 100%  
Maximum Coefficient of Variation (CV) < 40 %

EPA Methods:            1002.0 *Ceriodaphnia dubia* Survival and Reproduction  
                                 1000.0 *Pimephales promelas* Larval Survival and Growth

All statistical interpretations generated by CETIS - Comprehensive Environmental Toxicity Information System (v.1.9.1.4). CETIS created by Tidepool Scientific Software

Respectfully,



Blake Andres  
Lab Supervisor

# CETIS Test Evaluation Report

**Report Date:** 10 Apr-20 17:14 ( 1 of 1 )  
**Test Code:** 20-083-0391 cd | 18-3563-0615

<b>Facility:</b> Blytheville Sewer - West Plant	<b>Test Name:</b> Ceriodaphnia 7-d Survival and Reproduction Test
<b>Sample Site:</b>	<b>Organism:</b> Ceriodaphnia dubia (Water Flea)
<b>Sample Code:</b> 20-083-0391	<b>Protocol:</b> EPA/821/R-02-013 (2002)
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Start Date:</b> 24 Mar-20 09:02
<b>Sample Age:</b> 25h (2.7 °C)	<b>End Date:</b> 30 Mar-20 15:06
<b>Project:</b> WET Quarterly Compliance Test (1Q)	<b>Duration:</b> 6d 6h <b>Organism Age:</b> <24
<b>Permittee:</b> Blytheville Sewer Department	<b>Laboratory:</b> Waypoint Analytical Tennessee , LLC.
<b>Address:</b> PO Box 1784 Blytheville, AR 72316	<b>Address:</b> 2790 Whitten Road Memphis, TN 38133
<b>Contact:</b> Mr. Gary Carr	<b>Contact:</b> Ms. Blake Andres, Lab Supervisor
<b>Phone:</b> 870-763-4961	<b>Phone:</b> 901-271-5200, 901-213-2440(fax)
<b>Email:</b> Gcarrblyww@gmail.com	<b>Email:</b> sandres@waypointanalytical.com

**Comments:**

**Chronic Toxicity Evaluation**

Endpoint	Criteria	Conc-%	IWC	Decision	Method
Reproduction	NOEL/LOEL	100/>100	98.99	Passes IWC	Dunnett Multiple Comparison Test

**Test Acceptability Criteria**

Endpoint	Attribute	Test Stat	TAC Limits			Decision
			Lower	Upper	Overlap	
6d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Acceptability Criteria
Reproduction	Control Resp	15.8	15	>>	Yes	Passes Acceptability Criteria

**6d Survival Rate Data Summary**

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	10	1	1	1	1	1	0	0	0.00%	0.0%
32		10	1	1	1	1	1	0	0	0.00%	0.0%
42		10	1	1	1	1	1	0	0	0.00%	0.0%
56		10	1	1	1	1	1	0	0	0.00%	0.0%
75		10	1	1	1	1	1	0	0	0.00%	0.0%
100		10	1	1	1	1	1	0	0	0.00%	0.0%

**Reproduction Data Summary**

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	10	15.8	13.88	17.72	7	27	1.659	5.245	33.20%	0.0%
32		10	21.8	19.78	23.82	11	32	1.737	5.493	25.20%	-37.97%
42		10	23.3	21.28	25.32	17	35	1.745	5.519	23.69%	-47.47%
56		10	24.4	21.46	27.34	14	38	2.535	8.017	32.86%	-54.43%
75		10	24.2	20.82	27.58	9	40	2.913	9.211	38.06%	-53.16%
100		10	22.7	19.95	25.45	12	33	2.371	7.499	33.03%	-43.67%

# CETIS Summary Report

Report Date: 10 Apr-20 17:15 (p 1 of 2)  
 Test Code: 20-083-0391 cd | 18-3563-0615

## Ceriodaphnia 7-d Survival and Reproduction Test

Waypoint Analytical Tennessee, LLC.

<b>Batch ID:</b> 10-7111-4489	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b> Ivey E. Wilkinson
<b>Start Date:</b> 24 Mar-20 09:02	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> 20% DMW
<b>Ending Date:</b> 30 Mar-20 15:06	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 6d 6h	<b>Source:</b> In-House Culture	<b>Age:</b> <24

<b>Sample ID:</b> 11-4843-9603	<b>Code:</b> 20-083-0391	<b>Client:</b> Blytheville Sewer Department
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Quarterly Compliance Test (1Q)
<b>Receipt Date:</b> 23 Mar-20 12:00	<b>Source:</b> Blytheville Sewer - West Plant (AR0022560)	
<b>Sample Age:</b> 25h (2.7 °C)	<b>Station:</b>	

### Sample Renewals

Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	20-083-0391	25 Mar-20 07:45	25 Mar-20 11:30	26 Mar-20 00:00	0.5
2	20-083-0391	27 Mar-20 07:30	27 Mar-20 14:05	28 Mar-20 00:00	0.9

### Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
07-5367-0886	6d Survival Rate	Fisher Exact/Bonferroni-Holm Test	100	> 100	n/a	1	n/a
09-6843-8468	Reproduction	Dunnett Multiple Comparison Test	100	> 100	n/a	1	45.3%

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
07-5367-0886	6d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Acceptability Criteria
09-6843-8468	Reproduction	Control Resp	15.8	15	>>	Yes	Passes Acceptability Criteria

### 6d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
32		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
42		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
56		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
75		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

### Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	10	15.8	12.05	19.55	7	27	1.659	5.245	33.20%	0.00%
32		10	21.8	17.87	25.73	11	32	1.737	5.493	25.20%	-37.97%
42		10	23.3	19.35	27.25	17	35	1.745	5.519	23.69%	-47.47%
56		10	24.4	18.67	30.13	14	38	2.535	8.017	32.86%	-54.43%
75		10	24.2	17.61	30.79	9	40	2.913	9.211	38.06%	-53.16%
100		10	22.7	17.34	28.06	12	33	2.371	7.499	33.03%	-43.67%

**CETIS Summary Report**

**Report Date:** 10 Apr-20 17:15 (p 2 of 2)  
**Test Code:** 20-083-0391 cd | 18-3563-0615

**Ceriodaphnia 7-d Survival and Reproduction Test**

**Waypoint Analytical Tennessee, LLC.**

**6d Survival Rate Detail**

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	L	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
32		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
42		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
56		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

**Reproduction Detail**

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	L	27	14	14	18	18	15	7	12	19	14
32		11	19	21	24	23	21	32	19	27	21
42		21	29	17	19	21	24	35	26	18	23
56		38	20	16	18	29	26	35	21	14	27
75		17	9	12	25	26	40	26	27	30	30
100		15	20	18	12	18	24	23	32	33	32

**6d Survival Rate Binomials**

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	L	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
32		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
42		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
56		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
75		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

# CETIS Measurement Report

Report Date: 10 Apr-20 17:15 (p 1 of 3)  
Test Code: 20-083-0391 cd | 18-3563-0615

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## Ceriodaphnia 7-d Survival and Reproduction Test

Waypoint Analytical Tennessee, LLC.

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<b>Batch ID:</b> 10-7111-4489	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b> Ivey E. Wilkinson
<b>Start Date:</b> 24 Mar-20 09:02	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> 20% DMW
<b>Ending Date:</b> 30 Mar-20 15:06	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable
<b>Duration:</b> 6d 6h	<b>Source:</b> In-House Culture	<b>Age:</b> <24

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<b>Sample ID:</b> 11-4843-9603	<b>Code:</b> 20-083-0391	<b>Client:</b> Blytheville Sewer Department
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Quarterly Compliance Test (1Q)
<b>Receipt Date:</b> 23 Mar-20 12:00	<b>Source:</b> Blytheville Sewer - West Plant (AR0022560)	
<b>Sample Age:</b> 25h (2.7 °C)	<b>Station:</b>	

**CETIS Measurement Report**

**Report Date:** 10 Apr-20 17:15 (p 2 of 3)  
**Test Code:** 20-083-0391 cd | 18-3563-0615

**Ceriodaphnia 7-d Survival and Reproduction Test**

**Waypoint Analytical Tennessee , LLC.**

**Total Residual Chlorine-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	0	0	0	0	0	0	0
32								
42								
56								
75								
100		1	1	1	1	1	1	1

**Conductivity-µS/cm**

Conc-%	Code	1	2	3	4	5	6	7
0	L	165.7	165.3	167.1	166.7	159.3	164.3	159.4
32								
42								
56								
75								
100		383	383	379	381	378	360	341

**Final Dissolved Oxygen-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	8.5	8.3	8.6	8.3	8.6	8.4	
32		8.4	8.4	8.7	8.4	8.5	8.5	
42		8.3	8.4	8.7	8.4	8.5	8.4	
56		8.3	8.5	8.8	8.5	8.4	8.5	
75		8.2	8.5	8.8	8.5	8.5	8.6	
100		8.1	8.3	8.7	8.4	8.6	8.5	

**Initial Dissolved Oxygen-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	8.9	8.8	8.3	8.1	8.3	8.5	8.3
32		9	8.6	8.4	8.2	8.4	8.4	8.2
42		8.9	8.6	8.4	8.2	8.5	8.3	8.3
56		8.8	8.7	8.3	8.2	8.5	8.2	8.4
75		8.7	8.7	8.4	8.3	8.4	8.3	8.4
100		8.4	7.8	8	8	8.2	8	8.2

**Final pH-Units**

Conc-%	Code	1	2	3	4	5	6	7
0	L	7.5	7.4	7.5	7.6	7.5	7.6	
32		7.5	7.5	7.6	7.7	7.6	7.5	
42		7.5	7.6	7.6	7.7	7.6	7.6	
56		7.6	7.6	7.6	7.8	7.7	7.6	
75		7.6	7.6	7.6	7.8	7.7	7.6	
100		7.7	7.7	7.6	7.8	7.7	7.6	

**Initial pH-Units**

Conc-%	Code	1	2	3	4	5	6	7
0	L	7.3	7.8	7.7	7.6	7.7	7.7	7.7
32		7.6	7.5	7.6	7.5	7.6	7.7	7.7
42		7.4	7.5	7.6	7.4	7.5	7.6	7.6
56		7.3	7.5	7.5	7.4	7.5	7.6	7.5
75		7.3	7.4	7.4	7.3	7.4	7.4	7.5
100		7.2	7.2	7.3	7.3	7.2	7.2	7.5

# CETIS Measurement Report

Report Date: 10 Apr-20 17:15 (p 3 of 3)  
Test Code: 20-083-0391 cd | 18-3563-0615

## Ceriodaphnia 7-d Survival and Reproduction Test

Waypoint Analytical Tennessee, LLC.

### Final Temperature-°C

Conc-%	Code	1	2	3	4	5	6	7
0	L	21.7	23.3	22.3	22.1	22.4	22.3	
32		21.8	23.4	22.4	22.2	22.3	22.1	
42		21.7	23.3	22.4	22.2	22.4	22.2	
56		21.7	23.2	22.3	22.1	22.2	22.3	
75		21.8	23.3	22.3	22.4	22.2	22.3	
100		21.7	23.3	22.3	22.1	22.2	22.3	

### Initial Temperature-°C

Conc-%	Code	1	2	3	4	5	6	7
0	L	23.2	22.7	23.6	22.1	22.7	22.4	21.9
32		23.1	22.8	23.4	22.3	22.8	22.6	22.1
42		23.1	22.9	23.5	22.2	22.7	22.8	22.4
56		23.3	22.7	23.4	22.4	22.7	22.7	23.1
75		23.5	22.7	23.5	22.3	22.8	22.6	23.2
100		23.6	22.7	23.2	22.4	22.8	22.6	23.4

# CETIS Test Evaluation Report

**Report Date:** 10 Apr-20 17:15 ( 1 of 1 )  
**Test Code:** 20-083-0391 fh | 04-8773-3268

<b>Facility:</b> Blytheville Sewer - West Plant	<b>Test Name:</b> Fathead Minnow 7-d Larval Survival and Growth Test
<b>Sample Site:</b>	<b>Organism:</b> Pimephales promelas (Fathead Minnow)
<b>Sample Code:</b> 20-083-0391	<b>Protocol:</b> EPA/821/R-02-013 (2002)
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Start Date:</b> 24 Mar-20 09:52
<b>Sample Age:</b> 25h (2.7 °C)	<b>End Date:</b> 31 Mar-20 11:45
<b>Project:</b> WET Quarterly Compliance Test (1Q)	<b>Duration:</b> 7d 2h <b>Organism Age:</b> <24
<b>Permittee:</b> Blytheville Sewer Department	<b>Laboratory:</b> Waypoint Analytical Tennessee , LLC.
<b>Address:</b> PO Box 1784 Blytheville, AR 72316	<b>Address:</b> 2790 Whitten Road Memphis, TN 38133
<b>Contact:</b> Mr. Gary Carr	<b>Contact:</b> Ms. Blake Andres, Lab Supervisor
<b>Phone:</b> 870-763-4961	<b>Phone:</b> 901-271-5200, 901-213-2440(fax)
<b>Email:</b> Gcarrblyww@gmail.com	<b>Email:</b> sandres@waypointanalytical.com

**Comments:**

**Chronic Toxicity Evaluation**

Endpoint	Criteria	Conc-%	IWC	Decision	Method
7d Survival Rate	NOEL/LOEL	100/>100	98.99	Passes IWC	Steel Many-One Rank Sum Test
Mean Dry Weight-mg	NOEL/LOEL	100/>100	98.99	Passes IWC	Dunnett Multiple Comparison Test

**Test Acceptability Criteria**

Endpoint	Attribute	Test Stat	TAC Limits			Decision
			Lower	Upper	Overlap	
7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Acceptability Criteria
Mean Dry Weight-mg	Control Resp	0.5325	0.25	>>	Yes	Passes Acceptability Criteria

**7d Survival Rate Data Summary**

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	1	1	1	1	1	0	0	0.00%	0.0%
32		5	0.925	0.884	0.966	0.75	1	0.05	0.1118	12.09%	7.5%
42		5	0.95	0.9249	0.9751	0.875	1	0.03062	0.06847	7.21%	5.0%
56		5	0.975	0.9545	0.9955	0.875	1	0.025	0.0559	5.73%	2.5%
75		5	0.95	0.9249	0.9751	0.875	1	0.03062	0.06847	7.21%	5.0%
100		5	0.9	0.8616	0.9384	0.75	1	0.04677	0.1046	11.62%	10.0%

**Mean Dry Weight-mg Data Summary**

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	0.5325	0.4814	0.5836	0.4	0.7625	0.06233	0.1394	26.17%	0.0%
32		5	0.52	0.4841	0.5559	0.3875	0.6125	0.04377	0.09787	18.82%	2.35%
42		5	0.5525	0.521	0.584	0.45	0.65	0.03841	0.08588	15.54%	-3.76%
56		5	0.5125	0.4837	0.5413	0.4375	0.625	0.03513	0.07856	15.33%	3.76%
75		5	0.51	0.4894	0.5306	0.4625	0.6	0.02512	0.05618	11.02%	4.23%
100		5	0.5575	0.5498	0.5652	0.525	0.575	0.009354	0.02092	3.75%	-4.7%



# CETIS Summary Report

Report Date: 10 Apr-20 17:15 (p 1 of 2)  
 Test Code: 20-083-0391 fh | 04-8773-3268

## Fathead Minnow 7-d Larval Survival and Growth Test

Waypoint Analytical Tennessee, LLC.

<b>Batch ID:</b> 12-5746-3007	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b> Ivey E. Wilkinson
<b>Start Date:</b> 24 Mar-20 09:52	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> 20% DMW
<b>Ending Date:</b> 31 Mar-20 11:45	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 2h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b> <24

<b>Sample ID:</b> 11-4843-9603	<b>Code:</b> 20-083-0391	<b>Client:</b> Blytheville Sewer Department
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Quarterly Compliance Test (1Q)
<b>Receipt Date:</b> 23 Mar-20 12:00	<b>Source:</b> Blytheville Sewer - West Plant (AR0022560)	
<b>Sample Age:</b> 25h (2.7 °C)	<b>Station:</b>	

### Sample Renewals

Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	20-083-0391	25 Mar-20 07:45	25 Mar-20 11:30	26 Mar-20 00:00	0.5
2	20-083-0391	27 Mar-20 07:30	27 Mar-20 14:05	28 Mar-20 00:00	0.9

### Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
01-0651-9274	7d Survival Rate	Steel Many-One Rank Sum Test	100	> 100	n/a	1	11.3%
18-9496-5677	Mean Dry Weight-mg	Dunnett Multiple Comparison Test	100	> 100	n/a	1	24.6%

### Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
01-0651-9274	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Acceptability Criteria
18-9496-5677	Mean Dry Weight-mg	Control Resp	0.5325	0.25	>>	Yes	Passes Acceptability Criteria

### 7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
32		5	0.9250	0.7862	1.0000	0.7500	1.0000	0.0500	0.1118	12.09%	7.50%
42		5	0.9500	0.8650	1.0000	0.8750	1.0000	0.0306	0.0685	7.21%	5.00%
56		5	0.9750	0.9056	1.0000	0.8750	1.0000	0.0250	0.0559	5.73%	2.50%
75		5	0.9500	0.8650	1.0000	0.8750	1.0000	0.0306	0.0685	7.21%	5.00%
100		5	0.9000	0.7701	1.0000	0.7500	1.0000	0.0468	0.1046	11.62%	10.00%

### Mean Dry Weight-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	0.5325	0.3595	0.7055	0.4	0.7625	0.06233	0.1394	26.17%	0.00%
32		5	0.52	0.3985	0.6415	0.3875	0.6125	0.04377	0.09787	18.82%	2.35%
42		5	0.5525	0.4459	0.6591	0.45	0.65	0.03841	0.08588	15.54%	-3.76%
56		5	0.5125	0.415	0.61	0.4375	0.625	0.03513	0.07856	15.33%	3.76%
75		5	0.51	0.4402	0.5798	0.4625	0.6	0.02512	0.05618	11.02%	4.22%
100		5	0.5575	0.5315	0.5835	0.525	0.575	0.009354	0.02092	3.75%	-4.70%

# CETIS Summary Report

Report Date: 10 Apr-20 17:15 (p 2 of 2)  
Test Code: 20-083-0391 fh | 04-8773-3268

## Fathead Minnow 7-d Larval Survival and Growth Test

Waypoint Analytical Tennessee, LLC.

### 7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	1.0000	1.0000	1.0000	1.0000	1.0000
32		1.0000	1.0000	0.8750	1.0000	0.7500
42		1.0000	1.0000	0.8750	1.0000	0.8750
56		1.0000	1.0000	0.8750	1.0000	1.0000
75		1.0000	0.8750	0.8750	1.0000	1.0000
100		0.8750	0.8750	1.0000	0.7500	1.0000

### Mean Dry Weight-mg Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	0.4625	0.4	0.55	0.7625	0.4875
32		0.55	0.6	0.45	0.6125	0.3875
42		0.625	0.65	0.4875	0.55	0.45
56		0.625	0.475	0.4375	0.4625	0.5625
75		0.5125	0.4625	0.4625	0.5125	0.6
100		0.525	0.575	0.55	0.575	0.5625

### 7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	8/8	8/8	8/8	8/8	8/8
32		8/8	8/8	7/8	8/8	6/8
42		8/8	8/8	7/8	8/8	7/8
56		8/8	8/8	7/8	8/8	8/8
75		8/8	7/8	7/8	8/8	8/8
100		7/8	7/8	8/8	6/8	8/8

# CETIS Measurement Report

Report Date: 10 Apr-20 17:15 (p 1 of 3)  
Test Code: 20-083-0391 fh | 04-8773-3268

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## Fathead Minnow 7-d Larval Survival and Growth Test

Waypoint Analytical Tennessee, LLC.

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<b>Batch ID:</b> 12-5746-3007	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b> Ivey E. Wilkinson
<b>Start Date:</b> 24 Mar-20 09:52	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> 20% DMW
<b>Ending Date:</b> 31 Mar-20 11:45	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable
<b>Duration:</b> 7d 2h	<b>Source:</b> Aquatic Biosystems, CO	<b>Age:</b> <24

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<b>Sample ID:</b> 11-4843-9603	<b>Code:</b> 20-083-0391	<b>Client:</b> Blytheville Sewer Department
<b>Sample Date:</b> 23 Mar-20 08:30	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Quarterly Compliance Test (1Q)
<b>Receipt Date:</b> 23 Mar-20 12:00	<b>Source:</b> Blytheville Sewer - West Plant (AR0022560)	
<b>Sample Age:</b> 25h (2.7 °C)	<b>Station:</b>	

**CETIS Measurement Report**

**Report Date:** 10 Apr-20 17:15 (p 2 of 3)  
**Test Code:** 20-083-0391 fh | 04-8773-3268

**Fathead Minnow 7-d Larval Survival and Growth Test**

**Waypoint Analytical Tennessee , LLC.**

**Total Residual Chlorine-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	0	0	0	0	0	0	0
32								
42								
56								
75								
100		1	1	1	1	1	1	1

**Conductivity-µS/cm**

Conc-%	Code	1	2	3	4	5	6	7
0	L	165.7	165.3	167.1	166.7	159.3	164.3	159.4
32								
42								
56								
75								
100		383	383	379	381	378	360	341

**Final Dissolved Oxygen-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	7.6	8	7.8	7.5	7.3	7.4	7.7
32		7.7	7.9	7.7	7.5	7.4	7.5	7.6
42		7.5	7.8	7.6	7.5	7.4	7.6	7.3
56		7.3	7.8	7.6	7.6	7.3	7.6	7.2
75		7.1	7.7	7.5	7.6	7.3	7.6	7.3
100		6.9	7.5	7.5	7.5	7.4	7.6	7.2

**Initial Dissolved Oxygen-mg/L**

Conc-%	Code	1	2	3	4	5	6	7
0	L	8.9	8.8	8.3	8.1	8.3	8.5	8.3
32		9	8.6	8.4	8.2	8.4	8.4	8.2
42		8.9	8.6	8.4	8.2	8.5	8.3	8.3
56		8.8	8.7	8.3	8.2	8.5	8.2	8.4
75		8.7	8.7	8.4	8.3	8.4	8.3	8.4
100		8.4	7.8	8	8	8.2	8	8.2

**Final pH-Units**

Conc-%	Code	1	2	3	4	5	6	7
0	L	7.3	7.5	7.6	7.6	7.5	7.6	7.1
32		7.2	7.6	7.5	7.7	7.4	7.6	7.2
42		7.3	7.5	7.5	7.7	7.4	7.5	7.2
56		7.4	7.4	7.4	7.6	7.5	7.6	7.2
75		7.5	7.4	7.4	7.6	7.5	7.6	7.3
100		7.5	7.5	7.4	7.5	7.5	7.6	7.4

**Initial pH-Units**

Conc-%	Code	1	2	3	4	5	6	7
0	L	7.3	7.8	7.7	7.6	7.7	7.7	7.7
32		7.6	7.5	7.6	7.5	7.6	7.7	7.7
42		7.4	7.5	7.6	7.4	7.5	7.6	7.6
56		7.3	7.5	7.5	7.4	7.5	7.6	7.5
75		7.3	7.4	7.4	7.3	7.4	7.4	7.5
100		7.2	7.2	7.3	7.3	7.2	7.2	7.5

# CETIS Measurement Report

Report Date: 10 Apr-20 17:15 (p 3 of 3)  
Test Code: 20-083-0391 fh | 04-8773-3268

## Fathead Minnow 7-d Larval Survival and Growth Test

Waypoint Analytical Tennessee, LLC.

### Final Temperature-°C

Conc-%	Code	1	2	3	4	5	6	7
0	L	21.3	22.7	23.1	23.1	23.3	23.6	22.4
32		21.5	22.8	23.2	23	23.3	23.6	22.5
42		21.4	22.9	23.4	22.9	23.4	23.4	22.3
56		21.4	22.7	23.4	22.9	23.2	23.4	22.3
75		21.4	22.7	23.4	22.9	23.1	23.4	22.4
100		21.4	22.7	23.4	22.9	23.2	23.4	22.4

### Initial Temperature-°C

Conc-%	Code	1	2	3	4	5	6	7
0	L	23.2	22.7	23.6	22.1	22.7	22.4	21.9
32		23.1	22.8	23.4	22.3	22.8	22.6	22.1
42		23.1	22.9	23.5	22.2	22.7	22.8	22.4
56		23.3	22.7	23.4	22.4	22.7	22.7	23.1
75		23.5	22.7	23.5	22.3	22.8	22.6	23.2
100		23.6	22.7	23.2	22.4	22.8	22.6	23.4

Additional Toxicity Test Information

1. Methods/Instrumentation used in chemical analysis:
  - Dissolved oxygen, DM 4: (SM 4500-O G-2011)
  - pH, PH 21: (SM 4500-H + B-2011)
  - Temperature, T 83
  - Conductivity, C 1: (SM 2510 B-2011)
  - Alkalinity: (SM 2320 B-2011)
  - Hardness: (EPA 200.7 / SM 2340 B-2011)
  - Total Residual Chlorine: (SM 4500-CL G-2011)
    - Reported value of “0” indicates result below detection limit of 0.02 mg/L
    - Reported value of “1” indicates result above detection limit of 0.02 mg/L
  - EPA Acute Manual Edition and Date: EPA-821-R-02-012, OCT 2002 (Fifth edition)
  - EPA Chronic Manual Edition and Date: EPA-821-R-02-013, OCT 2002 (Fourth edition)
2. Laboratory
  - Temperature: Average: 25 °C Range: 25± 1°C
    - Incubator ID: BIO Thermometer ID: 120554
  - Light Cycle: 16 hours light/ 8 hours dark
  - Light intensity: 50-100 foot-candles, average
  - Control Water: Dilute mineral water made with 20 % Perrier in Nanopure
  - Dilution Water: Laboratory control water
  - Pretreatment: none
3. Method 1002.0 *Ceriodaphnia dubia* Survival and Reproduction
  - Test chambers: 30 mL disposable plastic beakers
  - Volume per chamber: 15 mL
  - Number of organisms per chamber: 1
  - Number of replicates: 10
  - Food: *Ceriodaphnia dubia* are fed 0.15mL *Raphidocelis subcapitata* (Algae) and YTC solution daily.
  - Acclimation of organisms: In house cultures are raised at 25°C. Purchased organisms are allowed to reach 25°C prior to use.
4. Method 1000.0 *Pimephales promelas* (Fathead minnow) Larval Survival and Growth
  - Test chambers: 20 oz. Disposable plastic cups
  - Volume per chamber: 250 mL
  - Average number of organisms per chamber: 8
  - Number of replicates per concentration: 5
  - Food: Fathead minnows are fed 0.15 mL *Artemia* brine shrimp hatched in laboratory twice daily
  - Acclimation of organisms: Dilution water is added until organisms are contained in a culture media that consists of 80% dilution water. Organisms are allowed to reach 25°C prior to use.
5. Reference Toxicity
  - Reference toxicity tests are performed monthly on each method performed by the laboratory.
  - Potassium Chloride is used as the reference toxicity chemical for vertebrate species
  - Current chemical ID: CS 6154725
  - Sodium Chloride is used as the reference toxicity chemical for invertebrate species
  - Current chemical ID: CS 615537
6. Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from EPA methodology that were necessary for these tests as well as any sample manipulations which were performed, such as aeration, dechlorination with sodium thiosulfate, etc. and the justification for such manipulations or deviations. Attach additional pages as needed.
  - None

03316  
 Blytheville Sewer Department  
 Mr. Gary Carr  
 4834 County Rd. 639  
 Blytheville , AR 72315

Project Bioassay - West WWTP  
 Information :

Report Number : **20-083-0391**

**REPORT OF ANALYSIS**

Report Date : 04/10/2020

Received : 03/23/2020

Lab No : **97763**  
 Sample ID : **Outfall 001 - Composite 1**

Matrix: **Aqueous**  
 Sampled: **3/23/2020 8:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO <sub>3</sub> )	<b>163</b>	mg/L	1	1	03/31/20 09:20	CMF	2320B-2011
Calcium	<b>39.8</b>	mg/L	0.500	1	03/31/20 22:21	KKM	EPA-200.7
Hardness as CaCO <sub>3</sub> (SM-2340B)	<b>139</b>	mg/L	0.100	1	03/31/20 22:21		EPA-200.7
Magnesium	<b>9.56</b>	mg/L	0.100	1	03/31/20 22:21	KKM	EPA-200.7

Lab No : **98427**  
 Sample ID : **Outfall 001 - Composite 2**

Matrix: **Aqueous**  
 Sampled: **3/25/2020 7:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO <sub>3</sub> )	<b>132</b>	mg/L	1	1	03/31/20 09:20	CMF	2320B-2011
Calcium	<b>32.8</b>	mg/L	0.500	1	03/31/20 22:41	KKM	EPA-200.7
Hardness as CaCO <sub>3</sub> (SM-2340B)	<b>113</b>	mg/L	0.100	1	03/31/20 22:41		EPA-200.7
Magnesium	<b>7.67</b>	mg/L	0.100	1	03/31/20 22:41	KKM	EPA-200.7

Lab No : **99443**  
 Sample ID : **Outfall 001 - Composite 3**

Matrix: **Aqueous**  
 Sampled: **3/27/2020 7:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO <sub>3</sub> )	<b>146</b>	mg/L	1	1	03/31/20 09:20	CMF	2320B-2011
Calcium	<b>37.2</b>	mg/L	0.500	1	03/31/20 22:51	KKM	EPA-200.7
Hardness as CaCO <sub>3</sub> (SM-2340B)	<b>128</b>	mg/L	0.100	1	03/31/20 22:51		EPA-200.7
Magnesium	<b>8.62</b>	mg/L	0.100	1	03/31/20 22:51	KKM	EPA-200.7

**Qualifiers/** DF Dilution Factor L Limit Exceeded  
**Definitions** MQL Method Quantitation Limit



#1

Kit ID:	0000124234
Initiated By:	Sydney Andres
Initiated Date:	9/20/2019
Project Comment	

CHAIN-OF-CUSTODY

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Blytheville Sewer Department	03316	Mr. Thomas Jones	
Site Name	Project Number	<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
QTR 1 A - WEST Bioassay - 02/09-10/2020			
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
Blytheville Sewer - Bioassay	(870) 763-4961	cityofblytheville@att.net	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
8-23-20	8:30AM	Outfall 001 - Composite 1	Aqueous	C	1	Plastic - Pint	HNO3 - Nitric Acid	hardness
8-23-20	8:30AM	Outfall 001 - Composite 1	Aqueous	C	1	Plastic - Pint	NONE	Alkalinity
8-23-20	8:30AM	Outfall 001 - Composite 1	Aqueous	C	2	Plastic - Gallon	NONE	chronic CD/FH


 20-083-0391  
 03316  
 Blytheville Sewer Department  
 Bioassay - West WWTP  
 03-23-2020  
 12:18:04

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	STEVEN WALKER				
(Y)N	(Y)N		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			STEVEN WALKER	8:41	Aaron Varnadoe	032320	
			Relinquished by: (SIGNATURE)	3/23/20		1020	
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
T45 2.7c AV			Aaron Varnadoe	032320	Aaron Varnadoe	032320	1200





2

Kit ID:	0000124236
Initiated By:	Sydney Andres
Initiated Date:	9/20/2019
Project Comment	

CHAIN-OF-CUSTODY



Blytheville Sewer Department  
 Bioassay - West WWTP

20-083-0391  
 03316  
 03-23-2020  
 12:18:04

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Blytheville Sewer Department	03316	Mr. Thomas Jones	
Site Name	Project Number	<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
QTR 1 B - WEST Bioassay - 02/11-12/2020			
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
Blytheville Sewer - Bioassay	(870) 763-4961	cityofblytheville@att.net	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
3-25-20	7:45 AM	Outfall 001 - Composite 2	Aqueous	C	1	Plastic - Pint	HNO3 - Nitric Acid	hardness
3-25-20	7:45 AM	Outfall 001 - Composite 2	Aqueous	C	1	Plastic - Pint	NONE	Alkalinity
3-25-20	7:45 AM	Outfall 001 - Composite 2	Aqueous	C	2	Plastic - Gallon	NONE	chronic CD/FH

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments				
Ice	Custody Seals	Lab Comments	STEVEN WALKER					
(Y/N)	(Y/N)		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Steven Walker	3/25/20	8:00	Felton	3/25/20	1000
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Felton	3/25/20	1130	Felton	3/25/20	1130



3

Kit ID:	0000124237
Initiated By:	Sydney Andres
Initiated Date:	9/20/2019
Project Comment	

CHAIN-OF-CUSTODY



Blytheville Sewer Department  
 Bioassay - West WWTP / 3/23/20/3/25/20

20-083-0391  
 03316  
 03-23-2020  
 12:18:04

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Blytheville Sewer Department	03316	Mr. Thomas Jones	
Site Name	Project Number	<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
QTR 1 C - WEST Bioassay - 02/13-14/2020			
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
Blytheville Sewer - Bioassay	(870) 763-4961	cityofblytheville@att.net	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
3-27-20	7:30 AM	Outfall 001 - Composite 3	Aqueous	C	1	Plastic - Pint	HNO3 - Nitric Acid	hardness
3-27-20	7:30 AM	Outfall 001 - Composite 3	Aqueous	C	1	Plastic - Pint	NONE	Alkalinity
3-27-20	7:30 AM	Outfall 001 - Composite 3	Aqueous	C	3	Plastic - Gallon	NONE	chronic CD/FH

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	STEVEN WALKER				
ON	Y10		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			STEVEN WALKER	3/27/20 7:48	[Signature]	3/27/20 1235	
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
T-45 W0 0.9c			[Signature]	3/27/20 1405	[Signature]	3/27/20 1405	

NAME: Blytheville WEST Sewer  
 ADDRESS:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER	DISCHARGE NUMBER
AR0022560	

FACILITY:  
 LOCATION:  
 ATTN:

MONITORING PERIOD

YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
2019						

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
P/F STATRE 7DAY CHR CERIODAPHNIA TGP3B 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	(9A)		
	PERMIT REQUIREMENT							PASS=0 FAIL=1		
P/F STATRE 7DAY CHR PIMEPHALES PROMELAS TGP6C 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	(9A)		
	PERMIT REQUIREMENT							PASS=0 FAIL=1		
LF P/F LETH STATRE 7-DAY CHR CERIODAPHNIA TLP3B 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	(9A)		
	PERMIT REQUIREMENT							PASS=0 FAIL=1		
LF P/F LETH STATRE 7-DAY CHR PIMEPHALES TLP6C 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	(9A)		
	PERMIT REQUIREMENT							PASS=0 FAIL=1		
NOEL LETHAL STATRE 7-DAY CHR CERIODAPHNIA TOP3B 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	100	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
NOEL LETHAL STATRE 7-DAY CHR PIMEPHALES TOP6C 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	100	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		

NAME: Blytheville WEST Sewer  
 ADDRESS:

0  
0

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER	DISCHARGE NUMBER
AR0022560	0

MONITORING PERIOD

YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
2019	0	0		0	0	0

FACILITY:  
 LOCATION:  
 ATTN:

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
NOEL SUB-LTH STATRE 7DAY CHR CERIODAPHNIA <b>TPP3B</b> 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	100	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
NOEL SUB-LTH STATRE 7DAY CHR PIMEPHALES <b>TPP6C</b> 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	100	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
COEF OF VAR STATRE 7DAY CHR CERIODAPHNIA <b>TQP3B</b> 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	33.2	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
COEF OF VAR STATRE 7DAY CHR PIMEPHALES <b>TQP6C</b> 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	26.17	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
WHOLE EFFLUENT TOXICITY <b>22414 S</b> 0 0	SAMPLE MEASUREMENT	*****	*****	*****	100	*****	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		
WHOLE EFFLUENT TOXICITY <b>22414</b> 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	100	*****	*****	(23)		
	PERMIT REQUIREMENT							PER-CENT		